Supporting Information:

Isolation and Characterization of a New Type of Biomimetic μ -Hydroxy-bis-Zn(salphen) Sandwich Structure

Daniele Anselmo, † Eduardo C. Escudero-Adán, † Jordi Benet-Buchholz † and Arjan W. Kleij †,‡*

E-mail: akleij@iciq.es

Contents:

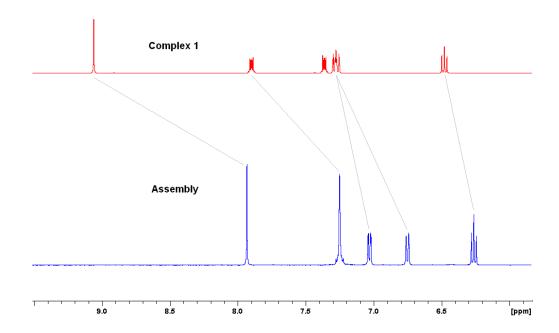
Page S2:	Figure S1.
Page S3:	Figure S2.
Page S4:	Figure S3.
Page S5:	¹ H NMR spectra of assemblies (1) ₂ ·NBu ₄ OH and (2) ₂ ·NBu ₄ OH.
Page S6:	¹ H NMR spectra of assemblies (3) ₂ ·NBu ₄ OH, (4) ₂ ·NBu ₄ OH and
	(5) ₂ ·NBu₄OH.
Page S8:	Displacement ellipsoid plot of structure (1) ₂ ·NBu ₄ OH.
Page S9:	Molecular structure determined for assembly (2) ₂ ·NBu ₄ OH.

[†] Institute of Chemical Research of Catalonia (ICIQ), Av. Països Catalans 16, 43007 Tarragona, Spain

[‡] Institució Catalana de Recerca i Estudis Avançats (ICREA), Pg. Lluís Companys 23, 08010 Barcelona, Spain.

Figure S1

Comparison between the spectra of free Zn(salphen) 1 and complex (1)₂·NBu₄OH (aromatic region – upper, and aliphatic region – lower spectrum): all in (d_6 -acetone)



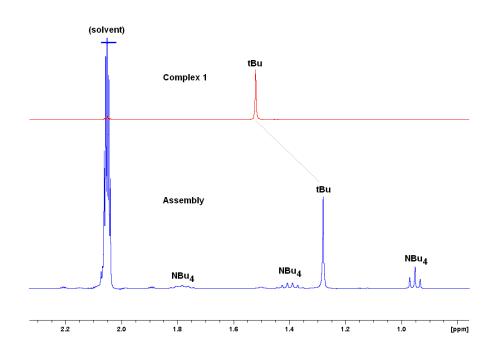


Figure S2

NOESY of assembly (1)₂·NBu₄OH (*d*₆-acetone)

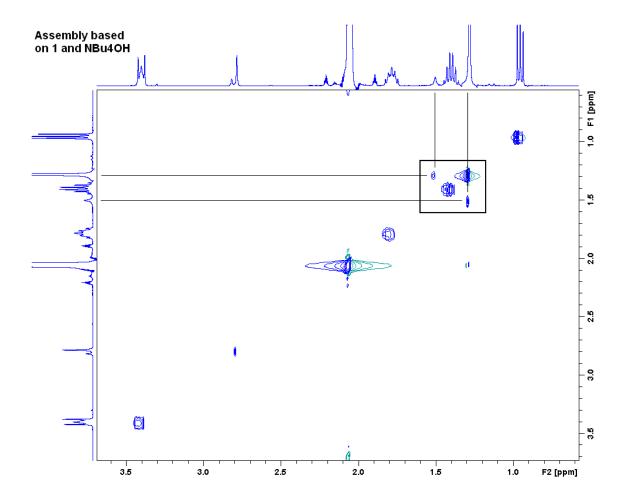
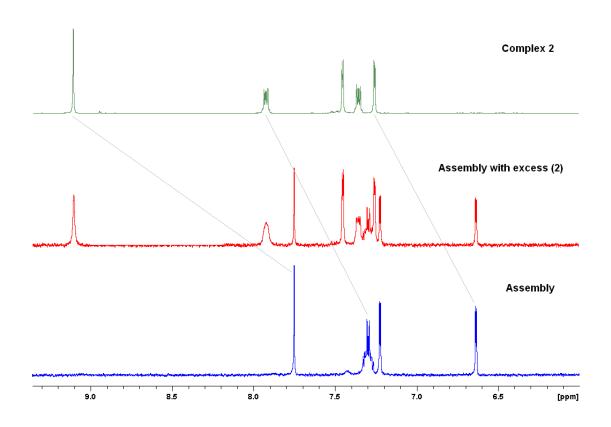


Figure S3

¹H NMR comparison with assembly (2)₂·NBu₄OH (*d*₆-acetone)



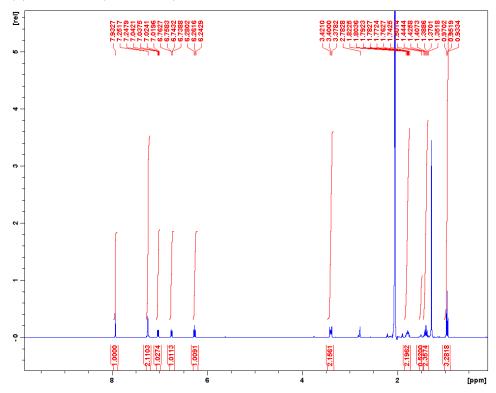
In green: Complex (2)

In red: Assembly (2)₂·NBu₄OH with 3 equiv of free (2)

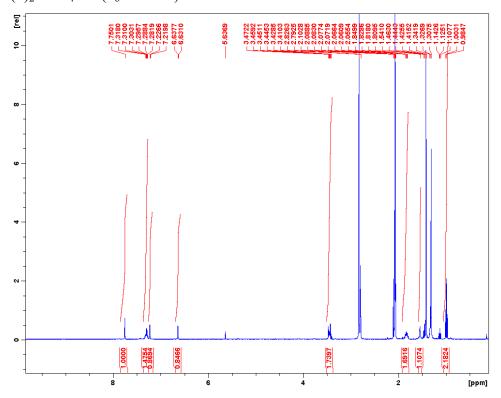
In blue: Pure assembly (2)₂·NBu₄OH

¹H NMR spectra of assemblies (1)₂·NBu₄OH and (2)₂·NBu₄OH.

$(1)_2$ ·NBu₄OH (d_6 -acetone):

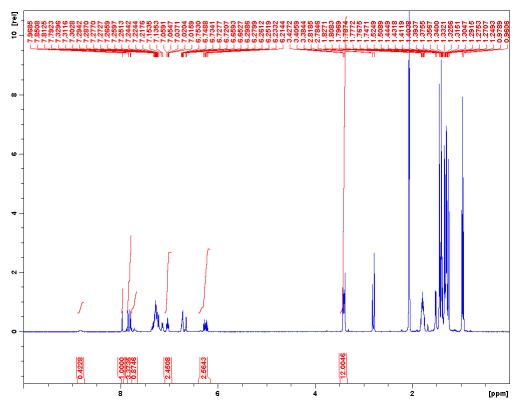


$(2)_2$ ·NBu₄OH (d_6 -acetone):

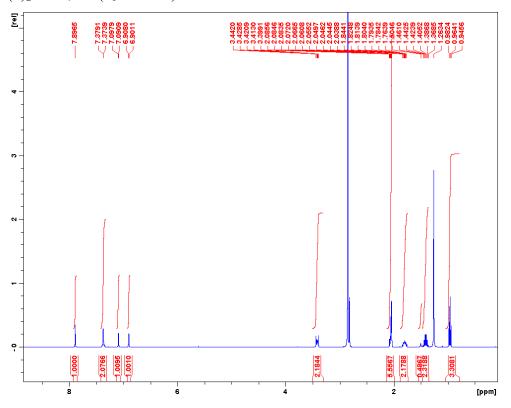


 1 H NMR spectra of assemblies (3) $_{2}$ ·NBu $_{4}$ OH, (4) $_{2}$ ·NBu $_{4}$ OH and (5) $_{2}$ ·NBu $_{4}$ OH

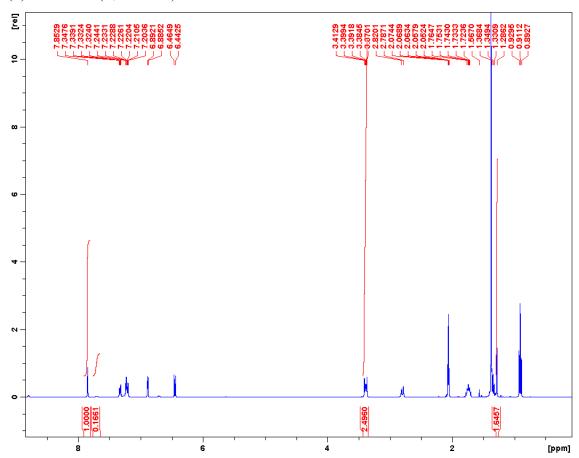
$(3)_2$ ·NBu₄OH (d_6 -acetone):



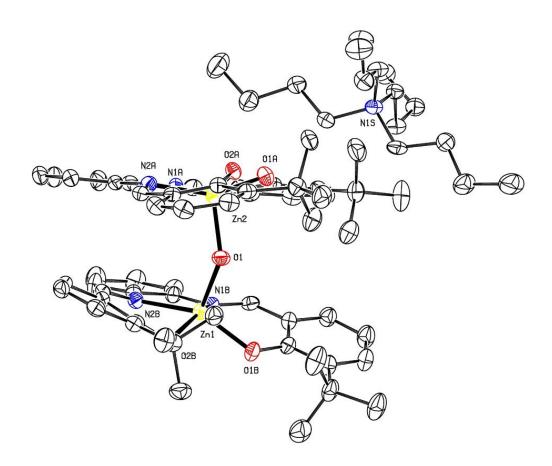
$(4)_2$ ·NBu₄OH (d_6 -acetone):



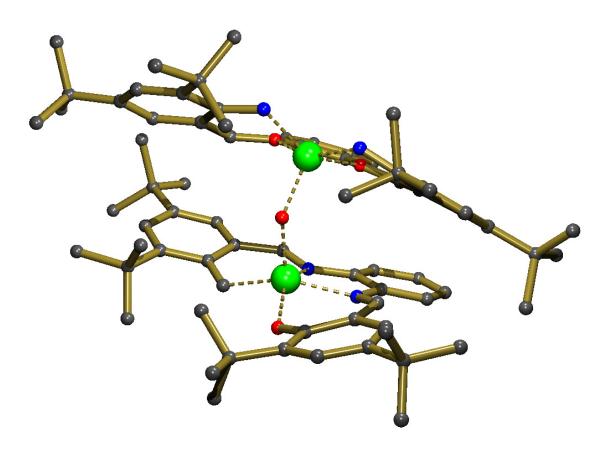
(5)₂·NBu₄OH (*d*₆-acetone):



Displacement ellipsoid plot of structure $(1)_2$ ·NBu₄OH.



Molecular structure determined for assembly $(2)_2$ ·NBu₄OH.



R1 = 0.137

The structure could not be completely refined. Please note that the NBu_4 cation is here omitted for clarity.